



 ADJUST ⁻ 	HE SENSITIVITY	OF THE RC	P TO EXCESS	RESERVE CAP	ACITY	
 INSTITUT 	E A QUANTITY-BA	ASED CONTR	ROL MECHANI	SM		
ENHANCE	BILATERAL MAR	RKET SUPPO	RT			

•	What is the purpose of the RCM?
	 Incentivise timely addition of capacity
	 Signal when no further investment is needed
	 Be compatible with the Market Objectives in the broader context of the WEM
•	What is the value of reserve capacity?
	 Administrative value vs economic value
	– What happens if these two values are not the same?
•	Who provides capacity?
	– What "is" capacity?
•	Putting the RCM in context
	 Short-term signals versus longer term value management
	 The RCM as part of the overall WEM context

















	24-48hr	48-72hr	72-96hr	96-all
Capacity Year	(Class 4)	(Class 3)	(Class 2)	(Class 1)
2010/11	116.5	20	17	0
2011/12	152.1	108		
2012/13	414.5	40		
s of mid 2011				























Amount of Excess Reserve Capacity	Based on "-1 slope"	Based on "-3 slope"
0%	85.0%	85.0%
5%	81.0%	73.9%
10%	77.3%	65.4%
15% (~current)	73.9%	58.6%
20%	70.8%	53.1%
25%	68.0%	48.6%
30%	65.4%	44.7%
35%	63.0%	41.5%
40%	60.7%	38.6%
45%	58.6%	36.2%
50%	56.7%	34.0%

A floor value could be considered as a stop loss arrangement, but why?

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The steeper "incentive" can be maintained but the starting point adjusted (=100% MRCP rather than 85% MRCP) 100% Current excess reserve capacity level 90% 80% **RCP** relative to MRCP 70% 60% 50% 40% 30% RCP Adjustment (slope = -1) from 85% MRCP 20% RCP adjustment (slope = -3) from 100% MRCP 10% 0% 50% 0% 5% 10% 15% 20% 25% 30% 35% 40% 45% Percentage of Excess Reserve Capacity Evaluating a specific change to the RCM (or even its current performance) against the Market Objectives involves balancing a number of countervailing forces.

Amount of Excess Reserve Capacity	Based on "-1 slope" starting at 85 percent of the MRCP	Based on "-3 slope" starting at 100 percent of the MRCP
0.0%	85.0%	100.0%
5.0%	81.0%	87.0%
10.0%	77.3%	76.9%
15.0% (~current)	73.9%	69.0%
20.0%	70.8%	62.5%
25.0%	68.0%	57.1%
30.0%	65.4%	52.6%
35.0%	63.0%	48.8%
40.0%	60.7%	45.5%
45.0%	58.6%	42.6%
50.0%	56.7%	40.0%











	Administrative RCM	Economic RCM	
	(Value of CC set by formula)	(Value of CC set by market process (eg. Auction))	
Active exposure (new capacity does or does not enters WEM due to RCM settings)	May induce/support investment that should not have occurred – depending on settings May not support investment at all even if needed	Likely to introduce significantly greater value volatility to capacity market, and introduce significant implementation challenge Would require significant changes	
Passive exposure (new capacity enters WEM due to policies or programmes)	Potential protection to investors in the event of non- market-based interventions	Drives value of CC down to zero, whether or not stakeholders responded correctly to economic value	

С	omment
•	Currently, the RCP is adjusted downward in proportion to the amount of excess reserve capacity that exists.
•	A straightforward change would focus on sharpening the administrative price adjustment mechanism to be more responsive to the amount of excess reserve capacity in the WEM.
•	An alternative of "spigot control" would go against market-based provision of capacity by new investors, though it would help protect existing generation investors from further potential reductions in CC value
•	Consequently, we favour a price-based adjustment either driven by more use of auctions (complex implementation and more volatile value impacts), or a sharpened RCP price adjustment formula
•	The risk to be avoided is one in which the adjustments to the RCP are so sufficiently and consistently downward without any chance of an offsetting upward adjustment that the expected value of a Capacity Credit over the life of a capacity investment is not sufficient to support that investment commercially.
33	The Lantau Group